

WHAT IS CLAIMED IS:

1. A tape heater comprising:
a heat-resistant, flexible substrate strip;
a heating element disposed on a surface of the
substrate strip, the surface being defined as a heating
surface; and
a wrap comprising a heat-resistant resin sheet,
wrapping the substrate strip and the heating element.
2. A tape heater according to Claim 1, wherein the
heating element is a heating wire whose periphery is covered
with a heat-resistant, insulative layer.
3. A tape heater according to Claim 1, further
comprising a heat-conductive material between the heating
element and the wrap.
4. A tape heater comprising:
a heat-resistant, flexible substrate strip;
a heating wire whose periphery is covered with a heat-
resistant insulative layer, the heating wire being disposed
on a surface of the substrate strip, the surface being
defined as a heating surface;
a wrap comprising a heat-resistant resin sheet,

wrapping the substrate strip and the heating element; and
a heat-conductive material between the heating wire and
the wrap.

5. A tape heater according to Claim 1, further
comprising a heat-insulating layer between the wrap and the
surface opposite the heating surface of the substrate strip.

6. A tape heater comprising:
a heat-resistant, flexible substrate strip;
a heating wire whose periphery is covered with a heat-
resistant insulative layer, the heating wire being disposed
on a surface of the substrate strip, the surface being
defined as a heating surface;
a wrap comprising a heat-resistant resin sheet,
wrapping the substrate strip and the heating element;
a heat-conductive material between the heating wire and
the wrap; and
a heat-insulating layer between the wrap and the
surface opposite the heating surface of the substrate strip.

7. A tape heater comprising:
a heat-resistant, flexible substrate strip;
a heating element disposed on a surface of the
substrate strip, the surface being defined as a heating

surface;

a wrap comprising a heat-resistant resin sheet, wrapping the substrate strip and the heating element; a heat-conductive material between the heating element and the wrap; and a heat-insulating layer between the wrap and the surface opposite the heating surface of the substrate strip.

8. A tape heater according to Claim 4, further comprising a heat-insulating layer between the wrap and the surface opposite the heating surface of the substrate strip.

9. A pipe-heating structure comprising:

a tape heater comprising a substrate strip, a heating element disposed on a surface of the substrate strip, and a wrap comprising a heat-resistant resin sheet, wrapping the substrate strip and the heating element; and

a pipe wound with the tape heater in a spiral manner.

10. A method for applying a pipe-heating structure, comprising:

the step of winding a tape heater around a pipe in a spiral manner,

wherein the tape heater comprises a substrate strip, a heating element disposed on a surface of the substrate strip,

and a wrap comprising a heat-resistant resin sheet, wrapping
the substrate strip and the heating element.